

CLAIMS

1. A connecting structure for connecting a fluid
circuit section to a chamber delimited on at least
5 one side by a thin metal sheet provided with at
least one orifice for access to the chamber,
comprising a tubular metal element (9) having a
first end (10) set into the orifice (7) and a
second end, and a connecting member (12)
10 comprising a duct (15) receiving at least the
second end of the tubular element (9) and secured
in sealed manner to the latter.
2. The structure as claimed in claim 1, characterized
15 in that the thickness of the metal sheet (4) is
less than or equal to 0.4 mm.
3. The structure as claimed in one of the preceding
claims, characterized in that the metal sheet (4)
20 and the tubular element (9) are made of one and
the same grade of metal.
4. The structure as claimed in claim 3, characterized
in that the metal sheet (4) and the tubular
25 element (9) are made of stainless steel.
5. The structure as claimed in one of the preceding
claims, characterized in that the connecting
member comprises an internal chamber (13) that can
30 be connected to the circuit section.
6. The structure as claimed in claim 5, characterized
in that the connecting member (12) is made of
plastic.
- 35 7. The structure as claimed in one of claims 5 or 6,
characterized in that the connecting member (12)
comprises a protruding portion (16) secured to the
metal sheet (4).

8. The structure as claimed in one of claims 5 to 7,
characterized in that the internal chamber (13)
has a main direction extending substantially
5 parallel to the metal sheet (4).
9. The structure as claimed in one of the preceding
claims, in which the metal sheet forms, by
stamping, a series of parallel ducts (6) and is
10 coupled in sealed manner to a membrane (2) to form
a fuel cell, the orifice (7) being formed in the
vicinity of the end of one of these ducts.
10. A fuel cell provided with at least one pair of
15 connecting structures as claimed in one of the
preceding claims.